

# THE UNIVERD SHATES OF AMERICA

TO ALL TO WHOM THESE: PRESENTS SHALL COME:

# Ball Horticultural Company

HILLIAS, THERE HAS BEEN PRESENTED TO THE

## Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT. THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH GASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS ARE ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY FARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC PLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR TING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE POSES, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT THE PLANT VARIETY PROTECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

### VINCA

'Pacifica Really Red'

In Testimonn Macrest, I have hereunto set my hand and caused the seal of the Plant Anciety Frotection Office to be affixed at the City of Washington, D.C. this twenty-second day of January, in the year two thousand and nine.

Aura

Gerz-

Commissioner
Plant Variety Protection Office
Agricultural Marketing Service

Secretary of Agriculture

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
SCIENCE AND TECHNOLOGY - PLANT VARIETY PROTECTION OFFICE

ULTURE

The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and SERVICE

The Paperwork Reduction Act (PRA) of 1995.

TO PROTECTION OFFICE

SCIENCE AND TECHNOLOGY - P	LANT VARIETY PROTECTION OFFICE	Application is required in order to determine if a plant variety protection certificate is to be issued		
APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE (Instructions and information collection burden statement on reverse)		Application is required in order to determ (7 U.S.C. 2421). Information is held con	nine if a plant variety protection certificate is to be issued affidential until certificate is issued (7 U.S.C. 2426).	
1, NAME OF OWNER		2. TEMPORARY DESIGNATION OR	3. VARIETY NAME	
PanAmerican Seed, a division of Ball Horticultural Co-		Real Red C4259D	'Pacifica Really Red'	
4. ADDRESS (Street and No., or R.F.D. No., City,	State, and ZIP Code, and Country)	5. TELEPHONE (include area code)	FOR OFFICIAL USE ONLY	
622 Town Road		(630)231-3600	PVPO NUMBER	
West Chicago, IL 60185		6. FAX (include area code)	200600190	
USA		(630) 231-2590	FILING DATE	
<ol> <li>IF THE OWNER NAMED IS NOT A "PERSON", ORGANIZATION (corporation, partnership, asso</li> </ol>		9. DATE OF INCORPORATION	April 18, 2006	
Corporation (Ball Horticul	tural) IL	July 27, 1995	1 / 10/0	
10. NAME AND ADDRESS OF OWNER REPRESE	ENTATIVE(S) TO SERVE IN THIS APPLICATION. (First p	person listed will receive all papers)	F FILING AND EXAMINATION FEES:	
Audrey Charles			R DATE 4/18/06	
622 Town Road			C CERTIFICATION FEE:	
West Chicago, IL 6018	85		\$ 768.00	
USA			E DATE 10/21/08	
11. TELEPHONE (Include area code) (630) 588-3118	12. FAX (Include area code) (630) 231-2590	13. E-MAIL acharles@ballhel	ix.com	
14. CROP KIND (Common Name)	16. FAMILY NAME (Botanical)	18. DOES THE VARIETY CONTA	IN ANY TRANSGENES? (OPTIONAL)	
vinca	Apocynaceae	☐ YES 🎦 NO		
15. GENUS AND SPECIES NAME OF CROP	17. IS THE VARIETY A FIRST GENERATION HYBRIG	IF SO, PLEASE GIVE THE ASSIGNED USDA-APHIS REFERENCE NUMBER FOR THE APPROVED PETITION TO DEREGULATE THE GENETICALLY MODIFIED PLANT FOR		
Catharanthus roseus X C. Trichophullus  19. CHECK APPROPRIATE BOXFOR EACH ATTA	☐ YES 🖾 NO	COMMERICALIZATION		
19. CHECK APPROPRIATE BOX/FOR EACH ATTACHMENT SUBMITTED (Follow instructions on reverse)			THAT SEED OF THIS VARIETY BE SOLD AS A CLASS Section 83(a) of the Plant Variety Protection Act)	
a. 🗵 Exhibit A. Origin and Breeding History	of the Variety		tems 21 and 22 below) 🔼 NO (If "no", go to item 23)	
b, 🗵 Exhibit B. Statement of Distinctness		21. DOES THE OWNER SPECIFY NUMBER OF CLASSES?	THAT SEED OF THIS VARIETY BE LIMITED AS TO	
c, 🗵 Exhibit C. Objective Description of Variety		☐ YES ☐ NO	_	
d. ☐ Exhibit D. Additional Description of the Variety (Optional)  e. ☑ Exhibit E. Statement of the Basis of the Owner's Ownership		22. DOES THE OWNER SPECIFY	☐ FOUNDATION ☐ REGISTERED ☐ CERTIFIED  THAT SEED OF THIS VARIETY BE LIMITED AS TO	
f. 🛣 Exhibit F. Declaration Regarding Deposit		NUMBER OF GENERATIONS  UNDERS NO	??	
g. 🗵 Voucher Sample (3,000 viable untreated seeds or, for tuber propagated varieties, verification			ER 1,2,3, etc. FOR EACH CLASS.	
that tissue culture will be deposited and maintained in an approved public repository)  g.   Filing and Examination Fee (\$4,382), made payable to "Treasurer of the United"		FOUNDATION RE	GISTERED CERTIFIED	
States" (Mail to the Plant Variety Protection Office)		(If additional explanation is nec	essary, please use the space indicated on the reverse.)	
23. HAS THE VARIETY (INCLUDING ANY HARVESTED MATERIAL) OR A HYBRID PRODUCED FROM THIS VARIETY BEEN SOLD, DISPOSED OF, TRANSFERRED, OR USED IN THE U. S. OR OTHER COUNTRIES?		24. IS THE VARIETY OR ANY CO INTELLECTUAL PROPERTY	MPONENT OF THE VARIETY PROTECTED BY RIGHT (PLANT BREEDER'S RIGHT OR PATENT)?	
YES □ NO		☐ YES 🏝 NO		

25. The owners declare that a viable sample of basic seed of the variety has been furnished with application and will be replenished upon request in accordance with such regulations as may be applicable, or for a tuber propagated variety a tissue culture will be deposited in a public repository and maintained for the duration of the certificate.

The undersigned owner(s) is(are) the owner of this sexually reproduced or tuber propagated plant variety, and believe(s) that the variety is new, distinct, uniform, and stable as required in Section 42, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act.

Owner(s) is (are) informed that false representation herein can jeopardize protection and result in penalties.

IF YES, YOU MUST PROVIDE THE DATE OF FIRST SALE, DISPOSITION, TRANSFER, OR USE FOR EACH COUNTRY AND THE CIRCUMSTANCES. (Please use space indicated on reverse.)

SIGNATURE OF OWNER	Charles	SIGNATURE OF OWNER	
NAME (Please print or Type)		NAME (Please print or type)	
Audrey Charles			
CAPACITY OR TITLE	DATE	CAPACITY OR TITLE	DATE
Patent Agent	4/17/06		
•	/ /		

(See reverse for instructions and information collection burden statement)

IF YES, PLEASE GIVE COUNTRY, DATE OF FILING OR ISSUANCE AND ASSIGNED REFERENCE NUMBER. (Please use space indicated on reverse.)

GENERAL INSTRUCTIONS: To be effectively filed with the Plant Variety Protection Office (PVPO), ALL of the following items must be received in the PVPO: (1) Completed application form signed by the owner; (2) completed exhibits A, B, C, E, F; (3) for a tuber reproduced variety, verification that a viable (in the sense that it will reproduce an entire plant) tissue culture will be deposited and maintained in an approved public repository; and (4) payment by credit card or check drawn on a U.S. bank for \$4,382 (\$518 filling fee and \$3,864 examination fee), payable to "Treasurer of the United States" (See Section 97.6 of the Regulations and Rules of Practice). NEW: With the application for a seed reproduced variety or by direct deposit soon after filling, the applicant must provide at least 3,000 viable untreated seeds of the variety per se, and for a hybrid variety at least 3,000 untreated seeds of each line necessary to reproduce the variety. Partial applications will be held in the PVPO for not more than 90 days; then returned to the applicant as un-filed. Mail application and other requirements to Plant Variety Protection Office, AMS, USDA, Room 401, NAL Building, 10301 Baltimore Avenue, Beltsville, MD 20705-2351. Retain one copy for your files. All items on the face of the application are self explanatory unless noted below. Corrections on the application form and exhibits must be initialed and dated. DO NOT use masking materials to make corrections. If a certificate is allowed, you will be requested to send a payment by credit card or check payable to "Treasurer of the United States" in the amount of \$768 for issuance of the certificate. Certificates will be issued to owner, not licensee or agent.

**NOTES:** It is the responsibility of the applicant/owner to keep the PVPO informed of any changes of address or change of ownership or assignment or owner's representative during the life of the application/certificate. The fees for filing a change of address; owner's representative; ownership or assignment; or any modification of owner's name is specified in Section 97.175 of the regulations. (See Section 101 of the Act, and Sections 97.130, 97.131, 97.175(h) of the Regulations and Rules of Practice.)

**Plant Variety Protection Office** 

Telephone: (301) 504-5518 FAX: (301) 504-5291

General E-mail: PVPOmail@usda.gov

Homepage: http://www.ams.usda.gov/science/pvpo/PVPindex.htm

#### SPECIFIC INSTRUCTIONS:

To avoid conflict with other variety names in use, the applicant must check the appropriate recognized authority and **provide evidence** that the permanent name of the application variety (even if it is a parental, inbred line) has been cleared by the appropriate recognized authority before the Certificate of Protection is issued. For example, for agricultural and vegetable crops, contact: U.S. Department of Agriculture, Agricultural Marketing Service, Livestock and Seed Programs, **Seed Regulatory and Testing Branch**, 801 Summit Crossing Place, Suite C, Gastonia, North Carolina 28054-2193 Telephone: (704) 810-8870. http://www.ams.usda.gov/isg/seed.htm.

#### ITEM

19a. Give:

- (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method;
- (2) the details of subsequent stages of selection and multiplication;
- (3) evidence of uniformity and stability; and
- (4) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified
- 19b. Give a summary of the variety's distinctness. Clearly state how this application variety may be distinguished from all other varieties in the same crop. If the new variety is most similar to one variety or a group of related varieties:
  - (1) identify these varieties and state all differences objectively;
  - (2) attach replicated statistical data for characters expressed numerically and demonstrate that these are clear differences; and
  - (3) submit, if helpful, seed and plant specimens or photographs (prints) of seed and plant comparisons which clearly indicate distinctness.
- 19c. Exhibit C forms are available from the PVPO Office for most crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form as completely as possible to describe your variety.
- 19d. Optional additional characteristics and/or photographs. Describe any additional characteristics that cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the characteristics that are difficult to describe, such as plant habit, plant color, disease resistance, etc.
- 19e. Section 52(5) of the Act requires applicants to furnish a statement of the basis of the applicant's ownership. An Exhibit E form is available from the PVPO.
- 20. If "Yes" is specified (seed of this variety be sold by variety name only, as a class of certified seed), the applicant MAY NOT reverse this affirmative decision after the variety has been sold and so labeled, the decision published, or the certificate issued. However, if "No" has been specified, the applicant may change the choice. (See Regulations and Rules of Practice, Section 97.103).
- 23. See Sections 41, 42, and 43 of the Act and Section 97.5 of the regulations for eligibility requirements.
- 24. See Section 55 of the Act for instructions on claiming the benefit of an earlier filing date.
- 22. CONTINUED FROM FRONT (Please provide a statement as to the limitation and sequence of generations that may be certified.)
- 23. CONTINUED FROM FRONT (Please provide the date of first sale, disposition, transfer, or use for each country and the circumstances, if the variety (including any harvested material) or a hybrid produced from this variety has been sold, disposed of, transferred, or used in the U.S. or other countries.)

Sale May 1, 2005 to Ball Seed Company for resale

24. CONTINUED FROM FRONT (Please give the country, date of filing or issuance, and assigned reference number, if the variety or any component of the variety is protected by intellectual property right (Plant Breeder's Right or Patent).)

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 1.4 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, sexual orientation, marital or family status, political beliefs, parental status, or protected genetic information. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at 202-720-2600 (voice and YDD).

To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or call 202-720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.

## **EXHIBIT A**

Origin and Breeding History of the Variety 'Pacifica Really Red'

In 1995

'Pacifica Really Red' was developed using the pedigree breeding system. The original developmental cross was made between the commercial variety 'Pacifica Punch' and the species Catharanthus trichophyllus. The species Catharanthus trichophyllus was originally obtained from the University of Connecticut in 1992 where it was designated as No.1659.

The  $F_1$  population was massed to produce the  $F_2$  generation.

Single plant selections were made in the  $F_2$  population. The  $F_2$  plants were selected based on a phenotype having good basal branching habit, early flowering plants, and large flowers with a light orifice, and good overlapping petals with darker red petal color. The plants were self pollinated.

Several F<sub>3</sub> families were selected and the above characters with the additional selection criteria of uniform dark red colored flowers. All the progeny were advanced by single plant selections

Subsequent F<sub>4</sub> to F<sub>6</sub> generation was advanced continuing to select for the above characters.

An F<sub>6</sub> family was selected and sib pollinated to produce a stock seed increase. The seed resulting from the stock seed increase was used to produce the first commercial crop.

No variants or off types were observed in either the stock seed increase generation or the subsequent crop.

'Pacifica Really Red' is stable and uniform after two generations of seed increase which included the stock seed increase and the first commercial crop.

# EXHIBIT B Statement of Distinctness Vinca-'Pacifica Really Red'

'Pacifica Really Red' is most readily distinguished from 'Cooler Red', which is the most similar commercial variety available, by flower color.

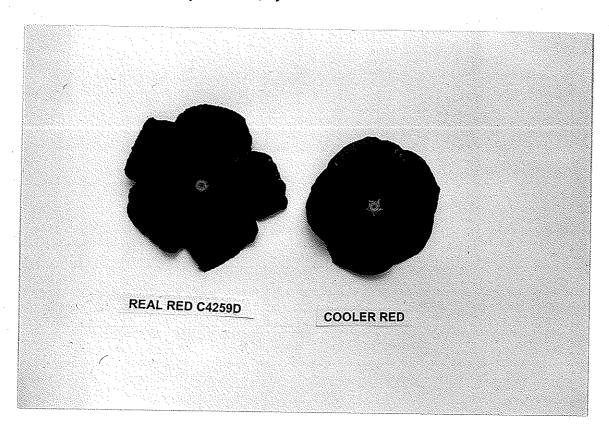


Fig 1. Vinca 'Pacifica Really Red and 'Cooler Red'. 'Pacifica Really Red' has a darker red flower color with red orange color base (RHS 46B) while 'Cooler Red' has a lighter rose-red color base (RHQ 57A).

United States Department of Agriculture, Agricultural Marketing Service Science and Technology Division, Plant Variety Protection Office National Agricultural Library Building, Room 500 Beltsville MD 20705

# OBJECTIVE DESCRIPTION OF VARIETY VINCA (Catharanthus spp.)

Name of Applicant(s)	Temporary Designation	Variety Name
PanAmerican Seed	Real Red C4259D	'Pacifica Really Red'
Ball Hortice	Utural Company	
Address (Street & No., o	or R.F.D. No., City, State, Zip Code and Country)	FOR OFFICIAL USE ONLY
622 Town Road		PVPO Number
West Chicago, IL 60185		200600190

Place the appropriate number that describes the varietal characters typical of this variety in the spaces below. Right justify whole numbers by adding leading zeros if necessary. The variety that you choose for comparison should be the most similar one in terms of background and maturity. The comparison variety used should be grown in field trials with the application variety for 2-3 location/years (environments) in the region and season of best adaptability. At least one year of trials should be conducted within the United States of America. In general, measurements of quantitative traits should be taken on 15-25 randomly selected plants or plant parts to obtain averages and statistics that describe a typical field of the variety. Designate test location(s):

a typical field of the variety. Designate test location(s).			
1. OVERALL PLANT HABIT (at flowering stage):			
Data Collection Site Guadalupe, CA USA	Comparison Variety Name 'Cooler Red'		
2 Species: 1=roseus 2=Other C. roseus x C. trichophyllus	2 Species C. roseus x C. trichophyllus		
2 Ploidy: 1=Haploid 2=Diploid 3=Triploid 4=Tetraploid	2 Ploidy		
1 Life Cycle: 1=Annual 2=Biennial 3=Perennial	1 Life Cycle		
2 Growth Habit : 1=Determinate 2=Semi-determinate 3=Indeterminate	2 Growth Habit		
1 Growth Form: 1=Upright 2=Semi-prostrate 3=Prostrate	1 Growth Form		
5 Flowering: 1=Very Early 2=Early 3=Mid Season 4=Late 5=Continuous	5 Flowering season		
0 6 0 Days from Planting to First Flowering	0 7 0 Days to First Flowering		
1 8 0 Length of Flowering Season in Days	1 8 0 Days - Flowering Season Length		
0 28.0 cm Plant Height at Maturity	0 2 4 0 cm Plant Height		
0 3 0 0 cm Plant Width at Maturity	<u>0 2 3.0</u> cm Plant Width		
2 Plant Height Class: 1=Extra Dwarf 2=Dwarf 3=Semi-dwarf 4=Tall	2 Plant Height Class		
2 Plant Width Class: 1=Compact 2=Semi-compact 3=Spreading/Lax	1 Plant Width Class		
2. STEM:			
1 Profile: 1=Straight 2=Zig-Zag	1 Profile		
3 Branching Pattern: 1=Single Stem 2=Few Branches 3=Many Branches	3 Branching Pattern		
2 7 . 0 cm Stem Length from base of stem to terminal flower	2 4 . 0 cm Stem Length (total)		
0 1 Number of Internodes below First Branch	0 1 Number of Internodes below First Branch		
0 6 Number of First Order Branches (from main stem)	_0_6_ No. of First Order Branches (from main stem)		
1 Stem Anthocyanin: 1=Absent 2=Along Veins only 3=Solid Coloration	1 Stem Anthocyanin		
Application Variety Data	Comparison Variety Data		

Application Variety Data Page	2 Comparison Variety Data
3. FOLIAGE:	2 Companson variety bata
1 Leaf Type: 1=Simple 2=Compound	_1_ Leaf Type
1 Leaf Margin: 1=Entire 2=Serrate 3=Other	1 Leaf Margin
3 Leaf Odor: 1=None 2=Mild 3=Strong	3 Leaf Odor
	1 Petiole Anthocyanin
Leaf Shape : 1=Lanceolate 2=Elliptic 3=Obovate 4=Ovate	2 Leaf Shape
Dear Shape . 1—Lanceolate 2—Emphe 3—Obovate 4—Ovate	Lear Shape
0 3 0.0 mm Leaf Width	
0 8 5.0 mm Leaf Length	0 6 5.0 mm Leaf Length
Lancedin Ellewidth Okomite : Otate	
LEAF DORSAL SIDE:	LEAF DORSAL SIDE
3 Leaf Color: 1=Light Green 2=Medium Green 3=Dark Green 4=Other (describe)	3 Leaf Color
Color Chart Name RHS 137A Color Chart Reading	RHS 137A Color Chart Reading
1 Pubescence: 1=Absent 2=Light 3=Heavy	1.001
2 Luster: 1=Dull 2=Shiny	1 Pubscence
	2 Luster
LEAF VENTRAL SIDE:	LEAF VENTRAL SIDE
3 Leaf Color: 1=Light Green 2=Medium Green 3=Dark Green 4=Other (describe)	3 Leaf Color
Color Chart Name RHS 137C Color Chart Reading	RHS 137C Color Chart Reading
1 Pubescence: 1=Absent 2=Light 3=Heavy	1 Pubscence
1 Luster: 1=Dull 2=Shiny	2 Luster
4. FLOWER:	
1 Type: 1=Single 2=Semi-Double 3=Double	_1_ Type
1 Form: 1=Flat 2=Cupped 3=Other	<u>1</u> Form
1 Shape: 1=Round (petals overlap) 2=Intermediate 3=Star (petals gapp	ed) 1 Shape
1 Flower Odor: 1=None 2=Mild 3=Strong	1 Flower Odor
1 Pedicel Anthocyanin: 1=Absent 2=Faint 3=Strong	1 Pedicel Anthocyanin
3 1 Number Flowers per Plant	2 3 Number Flowers per Plant
<u>0 5 5 . 0</u> mm Flower Diameter	0 4 5 . 0 mm Flower Diameter
_0_30 mm Orifice Size (including the opening of the corolla tube)	0 3 . 0 mm Orifice Size
_0_0_ mm Ring Width (from outside orifice to edge of color band)	0 0 mm Ring Width
0 2 7 . 0 mm Petal Width (at widest point)	0 2 5 . 0 mm Petal Width
0 2 9 . 0 mm Petal Length (from ring to outer edge)	0 2 0 . 0 mm Petal Length
Application Variety Data	Comparison Variety Data

Application Variety Data Page 3		Comparison	Variety Data	·			
5. FLOWER COLORS: (Note: Common Color Charts: RHS=Royal Horticultural Society Colour Chart; Munsell=Munsell Book of Color)							
	Color Verbal Name	Color Chart Code	Color Chart Name	·	Color Name	Chart Code	Chart Name
EXAMPLE	Light Blue	106C	RHS				
Petal Color	Dark Red	46B	RHS	Petal Color	Red-Purple	57B	RHS
Ring Color	Dark Red	46B	RHS	Ring Color	Red-Purple	57B	RHS
Orifice Color	Yellow	4C	RHS	Orifice Color	Yellow	4C	RHS
Other Color (describe location or placement)				Other			
6. SEEDS (Measur	e mature (dry) seeds	):			,	•	
5 Seed Set: 1=None 2=Poor 3=Fair 4=Good 5=Excellent		3 Seed Set					
3 Seed Coat Color: 1=White 2=Tan 3=Brown 4=Black 5=Other		3 Seed Coat Color					
<u>1 7 2 7 . 0 mg Weight per 1000 Seeds</u>		1 6 2 3 . 0 mg Seed Weight					
7. RESISTANCE: Test as many disease and insect reactions as possible before applying for protection. Tests for disease and insect reactions should include a resistant check and a susceptible check for each disease or insect being tested. When using disease resistance to describe novelty, information on these checks should be included in the novelty statement in support of the novelty claim. Rate the application variety and the comparison variety on a scale of 1 (most susceptible) to 9 (most resistant) for each disease or insect reaction being reported. Give the scientific and common names of each disease/insect for completeness, and the race or strain, if known. (Rate from 1 (most susceptible) to 9 (most resistant)):							
Rating Disease/Insect Name (give race or strain, if known)		Rating Dis	ease/Insect Na	me			
N/A		N/A					
				<del></del>			
			<u> </u>				
							· · · · · · · · · · · · · · · · · · ·
Application Variety	Data			Comparison	Variety Data		

Application Variety Data

Comparison Variety Data

8. Attach ONE photographic print of the application variety and the comparison variety described above, indicating the identity of each variety. This photograph should show flower heads of each variety at a magnification sufficient to identify most of the verbal descriptors given above. (Additional photographs in support of this application may be supplied as part of the Exhibits B or D.)



REPRODUCE LOCALLY. Include form number and edition date on all	reproductions.	ORM APPROVED - OMB No. 0581-0055		
U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE	Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). The information is held			
EXHIBIT E	confidential until the certificate is issue	ed (7 U.S.C. 2426).		
STATEMENT OF THE BASIS OF OWNERSHIP				
1. NAME OF APPLICANT(S)	2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER	3. VARIETY NAME		
Ball Horticultural Company	Real Red C4259D	'Pacifica Really Red'		
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP, and Country)	5. TELEPHONE (Include area code)	6. FAX (Include area code)		
622 Town Road	(630) 231-3600	(630) 231-2590		
West Chicago, IL 60185 USA	7. PVPO NUMBER			
USA		200600190		
8. Does the applicant own all rights to the variety? Mark an "X" in the	 e appropriate block. <b>If no, please expla</b> i			
9. Is the applicant (individual or company) a U.S. national or a U.S. b	ased company? If no, give name of co	ountry. YES NO		
		. [2000]		
10. Is the applicant the original owner? YES	NO If no, please answer <u>one</u>	of the following:		
a. If the original rights to variety were owned by individual(s), is (	are) the original owner(s) a U.S. Nationa	al(s)?		
YES	NO If no, give name of count			
[mail]	<u></u>			
b. If the original rights to variety were owned by a company(ies),				
YES	NO If no, give name of countr	y		
11. Additional explanation on ownership (Trace ownership from origin	nal breeder to current owner. Use the re	verse for extra space if needed):		
The breeding of variety 'Pacifica Really Red' was conducted in G	uadalune. California at a Pan American	Seed facility. Other than greenhouse		
technical staff, the breeder, Denis Flaschenriem, worked alone to				
Seed, a division of Ball Horticultural Company. By agreement be	tween the employee and Ball Horticult			
ownership to the variety resides with Ball Horticultural Company				
	·			
PLEASE NOTE:		· · · · · · · · · · · · · · · · · · ·		
Plant variety protection can only be afforded to the owners (not licens	ees) who meet the following criteria:			
If the rights to the variety are owned by the original breeder, that penational of a country which affords similar protection to nationals of a country which affords similar protection.				
<ol><li>If the rights to the variety are owned by the company which employ nationals of a UPOV member country, or owned by nationals of a c genus and species.</li></ol>	red the original breeder(s), the company country which affords similar protection t	must be U.S. based, owned by o nationals of the U.S. for the same		
3. If the applicant is an owner who is not the original owner, both the	original owner and the applicant must m	eet one of the above criteria.		
The original breeder/owner may be the individual or company who dir Act for definitions.	rected the final breeding. See Section 4	1(a)(2) of the Plant Variety Protection		
According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, control number. The valid OMB control number for this information collection is 0581-0055. including the time for reviewing the instructions, searching existing data sources, gathering a	The time required to complete this information collec-	tion is estimated to average 0.1 hour per response,		

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To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, D.C. 20250-9410 or call (202) 720-5964 (voice and TDD). USDA is an equal opportunity provide and employer.

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> U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY **PLANT VARIETY PROTECTION OFFICE** BELTSVILLE, MD 20705

### **EXHIBIT F DECLARATION REGARDING DEPOSIT**

DEDEN MENTION TRESTANDA DEL COM				
NAME OF OWNER (S)	ADDRESS (Street and No. or RD No., City, State, and Zip Code and Country)	TEMPORARY OR EXPERIMENTAL DESIGNATION		
PanAmerean Seed, a division of Ball Horticultural Company	622 Town Road	Real Red C4259D		
	West Chicago, IL 60185 USA	VARIETY NAME 'Pacifica Really Red'		
NAME OF OWNER REPRESENTATIVE (S)	ADDRESS (Street and No. or RD No., City, State, and Zip Code and Country)	FOR OFFICIAL USE ONLY		
Audrey Charles	622 Town Road West Chicago, IL 60185 USA	PVPO NUMBER 0 6 0 0 1 9 0		

I do hereby declare that during the life of the certificate a viable sample of propagating material of the subject variety will be deposited, and replenished as needed periodically, in a public repository in the United States in accordance with the regulations established by the Plant Variety Protection Office.

Hudry Charles Signature